

Technology & Engineering Education – Utah Scope and Sequence



Page 1
10/23/2006

TECHNOLOGY STUDENT ASSOCIATION

Technical Training, College, or University, to Work

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	Project Lead the Way Pre-engineering Pathway		Language Arts	Science	Math (Minimum)		Engineering Technologies	Communication	Visi	ual Arts			Interactive Media Web Development & Administration	Digital Media (Multimedia)
12 th Grade	Capstone	Engineering Design and Development	<u>LA - 12</u>	Chemistry	Pre-Calculus	Pre-Engineering Research and Development Design Analysis, Ethics, and Solving Engineering Problems	Mechanical Drafting Architectural Drafting	Introduction to Screen Printing Digital File Preparation	ations	Art			Web Development 2	3D Graphics and AnimationOr Multimedia II
10 th & 11 th Grade	cialty tions)	Computer Integrated Manufacturing Civil Engineering and Architecture Aerospace Engineering available year 2007/2008	<u>LA - 11</u>	Physics (Physics with Technology)	Intermediate Algebra	Materials and Processes Course	CAD Drafting Technology	Advanced to Graphic Communication	sual Com	And Advertising A	<u>ligi</u>	hotography	Web Development 1	Multimedia I Design & Development
	dS u	Digital Electronics Principles of Engineering Introduction to	LA - 10	Biclogy	Geometry W	Engineering Design Course	Drafting and Design	Interm. to Graphic Communication		Commercial A	Industrial Design	Commercial Photography	Introduction to Information Technology Computer Technology	Introduction to Information Technology Computer Technology
9th Grade	Foundatio	Engineering Design (Each PLTW course requires a two-week in-service training)	<u>LA - 9</u>	<u>Earth</u> <u>Systems</u>	Elementary Algebra	Foundations of Technology Design Concept Basic Systems: Electrical, Fluid, Mechanical, and Structure	Intro to Comm	unications Technology						
8 th Grade				Basic Design &	Technology & Eng	Exploring T gineering Content Area Exploration (Note: PLT		chnology course meets the Ex	ploring Te	chnology	standa	rds)		
7 th Grade		Technology and Engineer	ring Education	, Agriculture, Bu	siness, Career Gui	dance, Economics, Family and Consumer Scie		e & Technology, Information Te	echnology	, Marketi	ng, Trac	de and T	Fechnical, and Work-Base	d Learning
					Elementary	Programs			•	•		•	_	



Based on the Standards for Technological Literacy: Content for the Study of Technology Published by International Technology Education Association

High schools can choose between the two engineering options, PLTW or the Utah Program. They can also choose to provide feeder courses for other CTE programs.

Actual course titles are underlined.

- A Technology and Engineering Endorsement can teach the courses in the colored areas.
- This line between courses indicates that there is not required sequence to those courses.



Technology & E Technology & Engineering Education – Utah





Targeted Grade Level	Precision Production Trades					Tecl Construction Trades	Ag	Ag Systems Technolgy			or Un and R	£		Wor	k Information Support & Services Technical Support	Network Systems	
Grade	Furniture Design Manufacturing Woodworking	H	Machinist Technician/CNC	Sheet Metal	Welding Technician	Masonry/Tile Setting Concrete Placing an Finishing Electrician Plumbing Carpentry Construction Trades Foundation		Ag Systems Technolgy	Automotive Technician	Heavy Duty Mechanics/Diesel	Automotive Collision Repair Technician	Small Vehicle Technician	Aircraft Mechanics Technician/A&P	Basic Electronics Technician	A+ (Computer Maintenance) Introduction to Information Technology Computer Technology	Cisco Certified Networking Adm. Or Microsoft Certified Pro. (MCP Or Certified Novell Administrator (CNA) Network + Introduction to Information Technology Computer Technology	
9th Grade	Intro to Manufact	uring Te	echno	<u>logy</u>		Intro to Construction Technology	<u>1</u>					Int	ro to Tr	anspo	rtation and Energy T	echnology	
8 th Grade						Basic D	esign 8	<u>Ex</u> k T <mark>echnolog</mark>			nology ring Co	ntent /	Area Ex	plorat	ion		
7 th Grade	Technology and	Engine	ering	Educa	tion, Ag			TLC - C Guidance, E Trade and	conon	nics, F	amily a	nd Co			nce, Health Science &	Rachnology, Information Technology,	